T7Q

Rugged Tablet PC

User's Manual

Table of Contents

COPYRIGHT 4
REGULATORY STATEMENT 4
Federal Communications Commission Statement 4
Declaration of Conformity 4
RF exposure warning 5
Canada, Industry Canada (IC) Notices 5
Battery Disposal 6
SAFETY INSTRUCTIONS 7

BEFORE YOU START 9

PACKAGE CONTENTS 9
FEATURES 10
COMPONENTS 11
Front View 11
Back View 13
Left View 13
Right View 14
Top View 14
Bottom View 15
Status Indicators 15

GETTING STARTED 16

POWERING UP YOUR TABLET PC 16
Connecting the AC Adapter 16
Using Battery Power 16
INSTALLING THE BATTERY 17
Charging the Battery 17
Charging Time 17
Checking the Battery Level 18
When to replace the Battery Pack 18
Removing the Battery 18
STARTING YOUR TABLET PC 19
Turning On Your Tablet PC 19
Changing the Display Orientation 19
Shutting Down Your Tablet PC 19
USING THE STYLUS 20
Calibrate the Screen 20
USING THE ON-SCREEN KEYBOARD 21
USING THE QUICK MENU 22
USING THE CAMERA 24
USING THE MEMORY CARDS 28
Inserting a Memory Card 28

Removing a Memory Card *28*

MAKING CONNECTIONS 29

CONNECTING USB DEVICES 29
CONNECTING PERIPHERAL DEVICES 30
CONNECTING TO WIRELESS CONNECTIONS 31
Connecting to a Wireless Local Area Network *31*
Connecting to a Bluetooth Device *32*

POWER MANAGEMENT 33

USING THE POWER PLAN 33
USING THE POWER SAVING MODE 34

USING THE BIOS SETUP UTILITY 35

BIOS SETUP MENU 35
STARTING THE BIOS SETUP UTILITY 35
NAVIGATING AND ENTERING INFORMATION IN BIOS 36
MAIN MENU 36
ADVANCED MENU 37
BOOT MENU 37
SECURITY MENU 38
SAVE & EXIT MENU 38

TROUBLESHOOTING 39

SPECIFICATIONS 40

Copyright

Copyright© 2012. All rights reserved.
No part of this user manual may be transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of the manufacturer. Information is subject to change without prior notice.

Regulatory Statement

Federal Communications Commission Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables and shielded AC power cable must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

Declaration of Conformity

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
SAR Value: 1.53 W/kg

This device is operation in 5.15 – 5.25GHz frequency range, then restricted in indoor use only, Outdoor operations in the 5150~5250MHz is prohibit.

This device is slave equipment, the device is not radar detection and not ad-hoc operation in the DFS band.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate (“SAR”) limits when installed in specific host products operated in portable exposure conditions.

Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.
Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l’appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l’appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables.

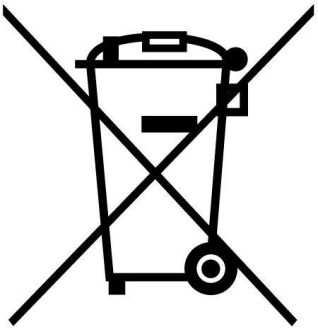
Battery Disposal

THIS PRODUCT CONTAINS A LITHIUM-ION OR NICKEL-METAL HYDRIDE BATTERY. IT MUST BE DISPOSED OF PROPERLY. CONTACT LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL PLANS IN YOUR AREA.

ANNEX IV

Symbol for the marking of electrical and electronic equipment

The symbol indicating separate collection for electrical and electronic equipment consists of the crossed-out wheeled bin, as shown below. The symbol must be printed visibly, legibly and indelibly.



Safety Instructions

Always keep strong magnetic or electrical objects away from your tablet PC.

DO NOT use or store your tablet PC in extreme temperatures.

DO NOT place your tablet PC near fire or other sources of heat.

DO NOT expose to dust or corrosive materials.

DO NOT tamper the battery. Keep it away from children.

DO NOT expose your tablet PC to sudden changes in temperature or humidity. Keep your tablet away from air conditioners or heating vents.

DO NOT attempt to service your tablet PC yourself. Any attempt to do so will make the warranty invalid.
When servicing, refer to qualified service personnel.

For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

To avoid exposed skin, such as the User’s lap, held or touched for long periods due to bottom enclosure may cause the injury from heat after long time usage.

CAUTION FOR ADAPTER

THIS TABLET PC IS FOR USE WITH DEDICATED AC ADAPTER.

BATTERY SAFETY

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.
REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

Before You Start

Congratulations on your purchase of this tablet PC.
This rugged tablet PC is portable and provides users with maximum mobile computing experience in a wide range of working environments. Before you begin using your tablet PC, read this chapter to familiarize yourself with the main components installed in the system.

Package Contents

The following items come with your package. If any of them is damaged or missing, please contact your retailer.

Tablet PC

Power cord

Power adapter

Stylus Pen

Desktop Cradle

LTE Antenna

Hand-strap

NOTE

- The pictures are for reference only, actual items may slightly differ.

Features

- Intel Cedar Trail-M platform
- Operating system supports Microsoft® Windows 7 and Window 8
- 7” WSVGA TFT Touch LCD display
- Small size and light weight
- Spill and Dust Proof
- Rugged design, up to military standard (MIL-STD 810G)
- Built-in 5MP camera
- Support G-sensor for LCD auto-rotation
- Intel WLAN capability
- Bluetooth connectivity
- WWAN
- Optional integrated barcode scanner (support 1D/2D barcode reading)
- Optional RFID reader (support ISO 15693, 14443A/B stand)

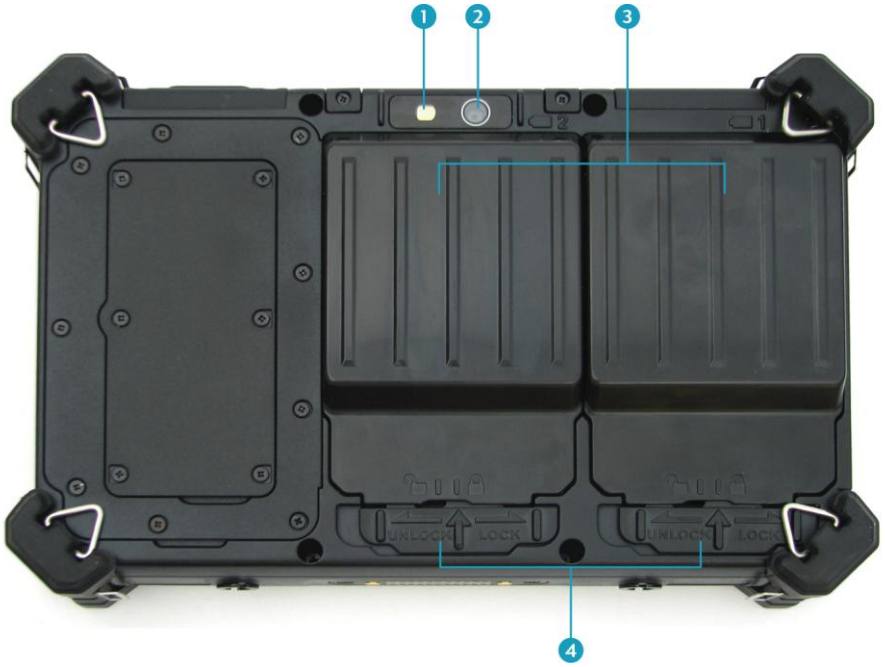
Components

Front View

No.	Item	Description
1	Light sensor	Use to detect the current level of visible light in the surrounding environment.
2	Status Indicators (Power, Battery, HDD, Wireless)	Indicate the corresponding function status. See "Status Indicators" on page 15.
3	Speaker	Emit sound.
4	Power	Press to power on and off the tablet PC.
5	Scanner	Press to trigger the Barcode scan function.
6	Camera	Press to activate the Camera Application.
7	Stealth mode	Press to disable all emitting lights and sound.
8	Quick menu	Press to access the Quick menu.
9	Security	Press to exit Windows and enter SAS (Secure Attention Sequence) mode.

No.	Item	Description
10	NumLock	Press to emulate NumLock key. **NOTE** When the numerical mode is activated, the keypad backlight (blue) lights on. If the keypad is left idle for 60 seconds, the backlight will automatically turn off.
11	Program1	Press to access your favorite programs.
12	Enter	Press to emulate the Enter key.
13	Program2	Press to access your favorite programs.
14	Arrow (up)	Press to emulate the Up key.
15	Arrow (left)	Press to emulate the Left key.
16	Arrow (right)	Press to emulate the Right key.
17	WLAN (Wi-Fi and Bluetooth)	Press to activate wireless LAN or Bluetooth communication.
18	Arrow (down)	Press to emulate the Down key.
19	Rotate	Press to rotate the display.
20	Number (0)	Press to enter 0.

Back View



No.	Item	Description
1	Camera LED flash	Provide additional lighting when taking pictures under the low light environment.
2	Camera	Use to take pictures.
3	Battery compartment	Contain the battery.
4	Battery latch	Lock the battery in place.

Left View

No.	Item	Description
1	Kensington lock slot	Connect to a Kensington-compatible tablet PC security lock.
2	DC-in jack	Connect the power adapter.

Right View

I/O A

I/O B

No.	Item	Description
1	Serial port (RS-232/RS-485)	Connect a peripheral device, such as a printer or other device with serial port.
2	LAN (RJ-45) port	Connect to a local area network (LAN) using an Ethernet cable.
3	USB port(s)	Connect USB peripheral devices.

Top View

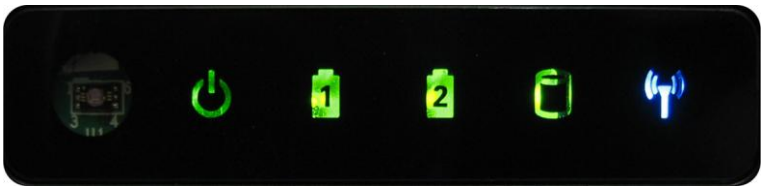
No.	Item	Description
1	ExpressCard slot and PC Card slot	Use to insert one 34/54 ExpressCard or Type II PC Card.
2	Card reader	Use to insert memory cards to transfer pictures, music, and data between your tablet PC and flash compatible devices. The card reader supports SD (Secure Digital), SDHC, Mini-SD (with adapter), MMC (Multi-media card), MMC+, Mini-MMC (with adapter) cards.

Bottom View

No.	Item	Description
1	Docking station port	Connect the tablet PC to a docking station.

Status Indicators

The status indicators in the upper left corner of the keyboard light up when a particular function of the tablet PC is active. Each indicator is marked with a symbol.



Icon	Item	Description
	Power	The LED always lights on (green) when the system is running. When the system is in sleep mode, the LED blinks.
1 2	**Battery**	Indicate the battery status: • Green light means the battery is fully charged. • Orange light means the battery is being charged. • Blinking orange light means the OTP of the battery pack is activated. • Red light means the battery power is low.
	HDD	A blinking green LED indicates HDD activity (data is being read or written).
	WLAN	Indicate the status of wireless LAN or Bluetooth communication. The LED always lights on (blue) when the function is enabled.

Getting Started

This chapter will guide you on how to use your tablet PC.

Powering Up Your Tablet PC

Your tablet PC can be powered up using the AC adapter or the Lithium-ion battery.

Connecting the AC Adapter

The AC adapter powers up your tablet PC and charges the battery.

1. Connect the AC adapter to the DC-in jack of your tablet PC.
2. Connect the AC adapter to the power cord.
3. Plug the power cord to an electrical outlet.

Using Battery Power

1. Install a charged battery in the battery compartment.
2. Remove the AC adapter (if plugged). Your tablet PC will automatically use the battery power.

NOTE

- If your tablet PC is connected to an electrical outlet and the battery is installed, your tablet PC uses power from the electrical outlet.

Installing the Battery

To install the battery, follow the steps below:

1. Align and insert the battery to the battery compartment.
2. Push completely until the battery locks into place.

3. Slide the battery latch to the lock position to secure the battery.

Charging the Battery

The Lithium-ion battery is not fully-charged upon purchase.

To charge the battery, follow the steps below:

1. Install the battery to your tablet PC. See procedures above.
2. Connect the AC adapter to the DC-in jack of your tablet PC.
3. Connect the AC adapter to the power cord.
4. Plug the power cord to an electrical outlet.

Charging Time

Number of battery pack	Charging duration (at 25ºC)
1	3.5 hours
2	6.5 hours

NOTE

- The charging time may be longer if you are using your tablet PC while charging the battery.

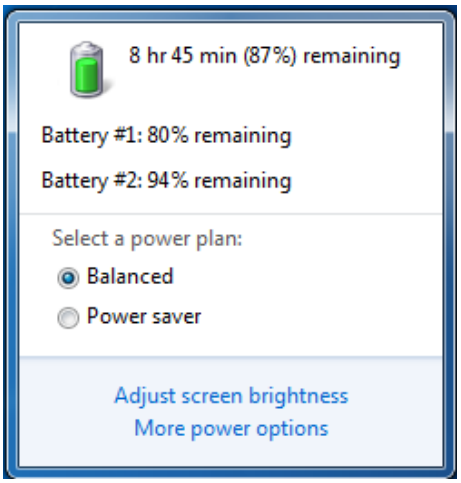
CAUTION

- DO NOT charge the battery if the temperature is below 0ºC or higher than 50ºC.
- Use only the supplied AC adapter. Using other AC adapters may damage the battery or your tablet PC.

Checking the Battery Level

It is important that you monitor the battery status regularly to ensure you do not run out of power at a critical moment.
To check the remaining battery power, double tap the battery icon in the system tray.

The battery screen appears:



When to replace the Battery Pack

The battery performance gradually decreases over time and usage. We recommend you to replace your battery pack after 18 to 24 months of usage.

Removing the Battery

To remove the battery, follow the steps below:

- Slide the battery latch to the unlock position.

- Remove the battery out of the battery compartment.

NOTE

- Make sure the system has shut down before you change the battery.

Starting Your Tablet PC

Turning On Your Tablet PC

Press the ⏻ button until the Power LED lights up.

Changing the Display Orientation

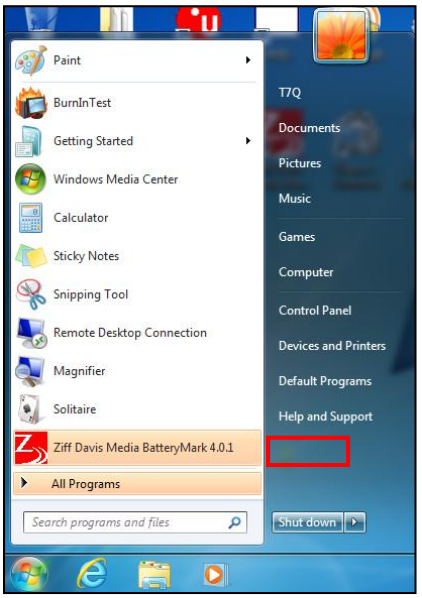
You can rotate the display orientation to suit your preference.
Press the 5 button to rotate the display 90° clockwise.

Shutting Down Your Tablet PC

It is important to properly shut down your tablet PC to avoid the loss of unsaved data. To shut down your tablet PC, do the following:

Tap **Start** > **Shut down**.

Wait for your tablet PC to turn off power completely before removing the power source (if necessary).



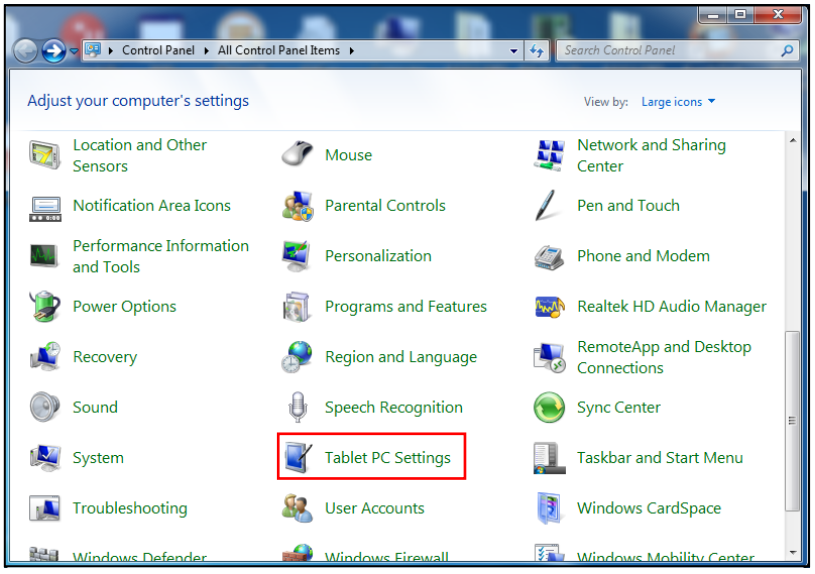
Using the Stylus

This tablet PC comes with an integrated stylus for accurate control input to the LCD touch panel and digitizer. You can use the stylus to point, select, or drag items or objects on the screen.

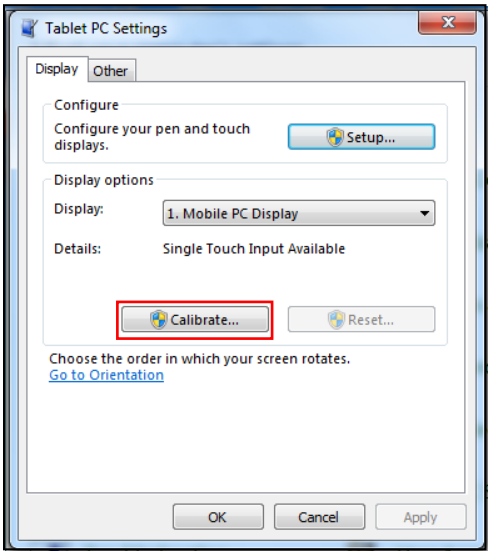
Calibrate the Screen

To ensure touch accuracy, calibrate the screen.

1. Tap **Start** > **Control Panel**.
2. Select **Tablet PC Settings**.

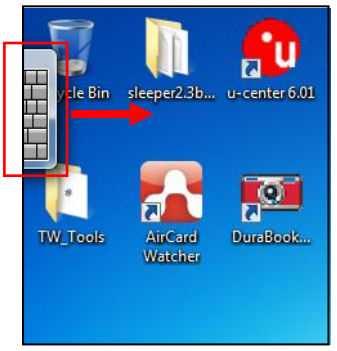


3. Tap **Calibrate**.
4. Follow the on-screen instructions to complete screen calibration.



Using the On-Screen Keyboard

Tap the screen to activate the on-screen keyboard and drag it out to the center of the screen to bring up the on-screen keyboard.

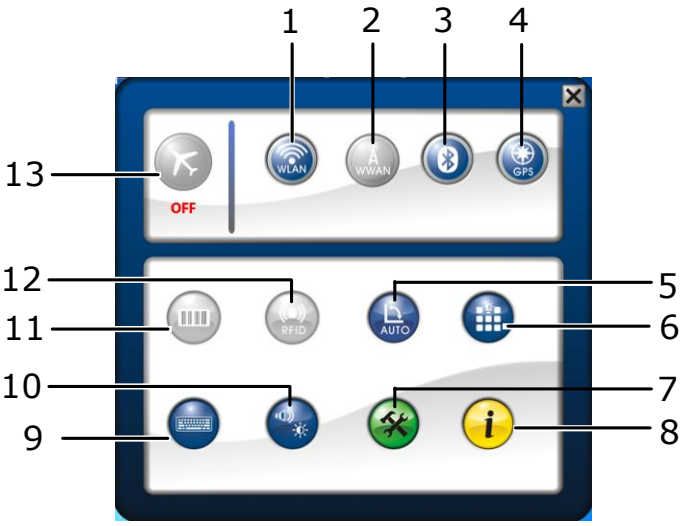


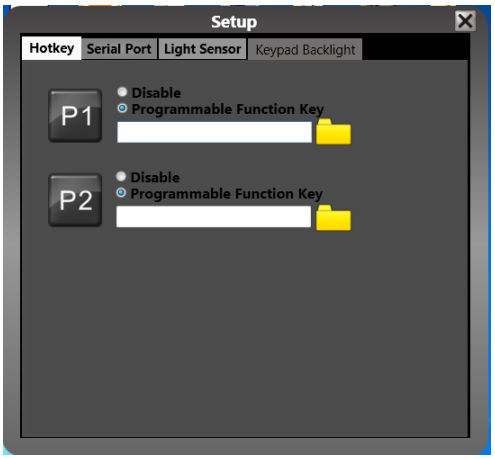
Standard Keyboard

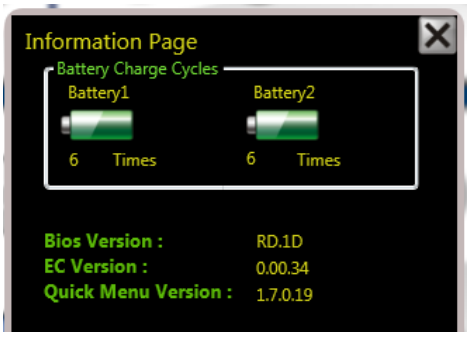
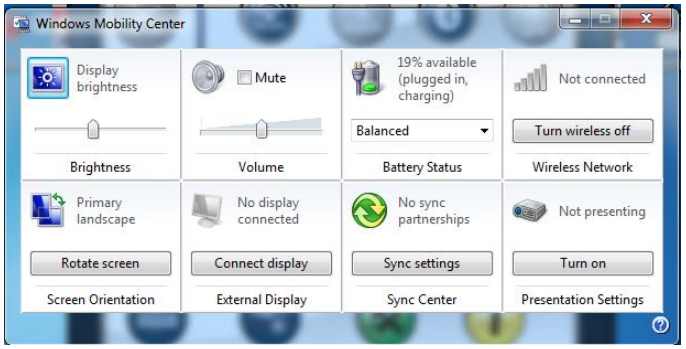
- Tap the keys on the keyboard just as you would on a hardware keyboard.
- To toggle between standard and expanded keyboard, tap **Tools** > **Show expanded keyboard**.
- When keys are pressed, the on-screen keyboard predicts the word as you type.
- Word suggestions appear on top of the keyboard. Tap a word to select it.
- To enter text by handwriting, tap the **Handwriting** icon (). To go back to keyboard mode, tap the **Keyboard** icon ().

Using the Quick Menu

Press the button to enter the Quick menu.



No.	Item	Description
1	WLAN	Tap the icon to enable/disable the Wi-Fi (WLAN) function.
2	WWAN	Tap the icon to enable/disable the WWAN function.
3	Bluetooth	Tap the icon to enable/disable the Bluetooth function.
4	GPS	Tap the icon to enable/disable the GPS function.
5	Auto-rotate	Tap the icon to enable/disable the Auto-Rotate screen function.
6	Keypad Backlight	Tap the icon to turn the keypad backlight on/off.
7	Setup	Tap the icon to set hotkey, serial port, light sensor, and keypad backlight settings.  **NOTE** ▪ The ***Keypad Backlight*** option is only available when the keypad backlight is enabled.

No.	Item	Description
8	Information	Tap the icon to view the battery charge cycle, Bios version, EC version, and Quick Menu version. 
9	Keyboard	Tap the icon to display/hide the on-screen keyboard.
10	Mobility center	Tap the icon to adjust brightness, screen orientation, volume, external display, battery status, sync, wireless network, and presentation settings. 
11	Barcode	Tap the icon to trigger the Barcode Scanner power ON/OFF.
12	RFID	Tap the icon to trigger the RFID power ON/OFF.
13	Airplane mode	Tap the icon to enable/disable airplane mode. **NOTE** ▪ When the Airplane mode is enabled, the wireless network (WLAN and WWAN), Bluetooth, and GPS will be automatically disabled.

NOTE

- If the icon is gray (i.e.), this indicates the current function is disabled.

Using the Camera

This tablet PC supports ***Durabook Camera Scan*** application that enables users to take photos using the device camera.

Launch the application

There are two ways to launch the application:

- Double-click "DuraBook Camera Scan" on desktop.
- Tap **Start** > **All Programs** > **DuraBook**.

Take Photos

Press the Record button to capture the pictures.

View Photos

- Press the Forward or Backward button "/" to view the recorded photos.
- Press the Play button "" to switch to Playback mode.
- In Playback mode, press the Preview button "" to switch back to Camera mode.

Delete Photos

1. Press the Play button " " to switch to Playback Mode.
2. Use the Forward or Backward button " / " to select the photo that you want to delete.
3. Press the Delete button " " and then choose **Yes** to delete the current photo.

Record GPS Coordinates (Geotagging)

is the GPS signal status located on the top right corner of the main program. GPS device must be implemented in the system for locating the positions and recording the coordinates when capturing photos. If GPS coordinates are not able to be received, the last coordinates would be used instead.

GPS status indicator

GPS device is working properly

GPS device is not available

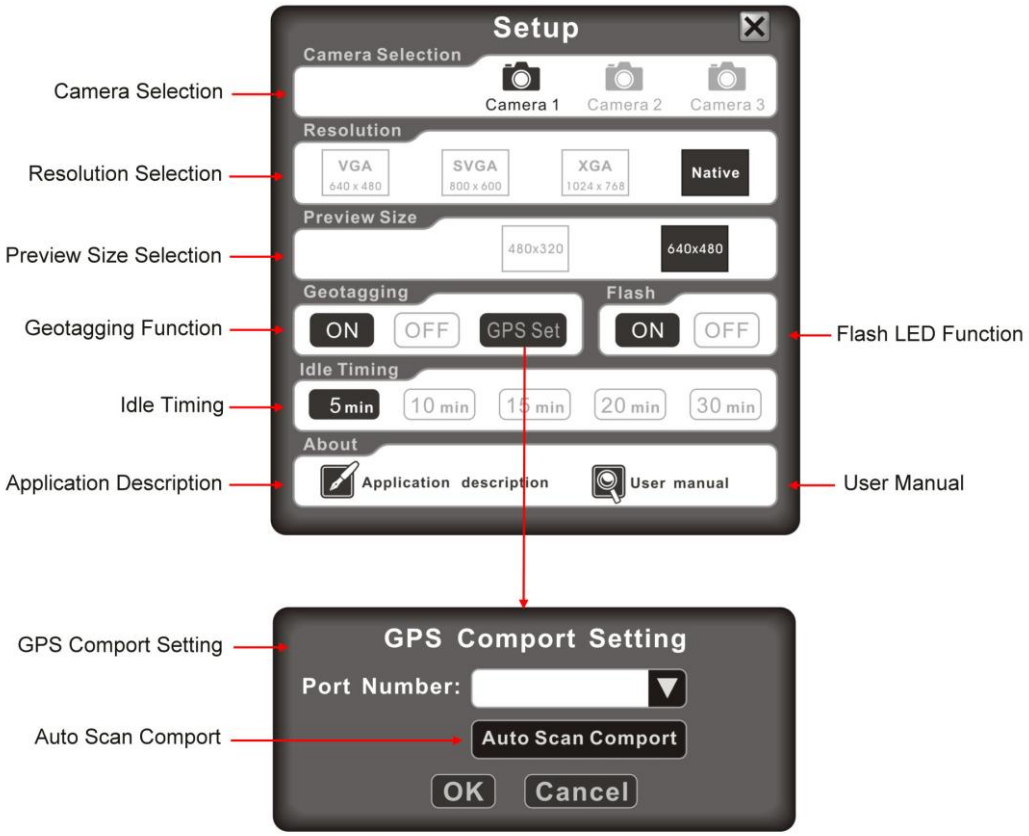
GPS signals are unstable

If the user decided to use the external USB GPS device, do the following:

1. Press the Setup button " " to enter the Setup menu.
2. Tap
3. > **Auto Scan Comport**.
   The detected Port Number is displayed on the screen.

How to Make Adjustments on Features:

Press the Setup button " " to enter the Setup menu.



Camera Selection:

There are three cameras that you can select:

- "

" – the camera is available and ready to use.
- "

" - the camera is not available.

Press the Leave button " " after you have chosen the desired camera.

Resolution:

There are four resolution options that you can select:

.

If the Camera does not support these four resolutions, a "Change Resolution Error" message will appear on the screen. Press the Leave button " " to exit. (Native: maximum resolution)

Preview Size:

There are two preview size options that you can select: 480x320 640x480.
Press the Leave button "" after you have chosen the desired preview size.

Geotagging:

Tap **ON** to enable the Geotagging feature.

Press the Leave button "" to exit.

NOTE

- The Geotagging feature will only be activated if the tablet PC is equipped with the GPS module.
- The camera logs the GPS position accurately if photos are taken outdoor.

Flash:
When capturing photos under the low light environment, tap **ON** to turn on the LED Flash.

NOTE

- The effective flash range is 50cm.

Idle Timing:

There are five Idle Timing options that you can select: 5 min 10 min 15 min 20 min 30 min.

Press the Leave button ""after you have chosen the desired time.

NOTE

- When the system is left idle for a certain period of time, the camera module(s) would then stop running. It would be up and running again once user wakes up the "DuraBook" application.

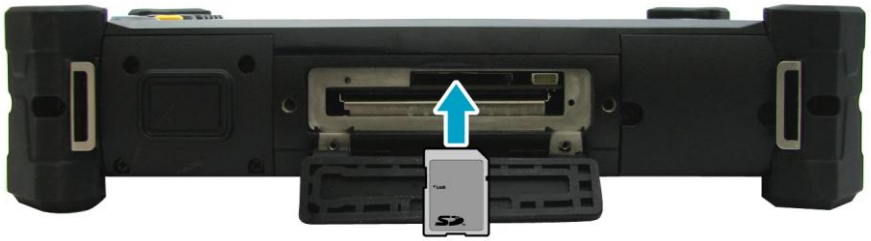
Using the Memory Cards

Your tablet PC supports different types of memory cards to provide faster data transfer. Supported types are as follows:

- SD card
- SDHC card
- Mini-SD card (with adapter)
- MS card (Memory Stick/PRO)
- MMC card
- Mini-MMC card (with adapter)

Inserting a Memory Card

With the label side up, push the memory card into the memory card slot until it clicks into place.



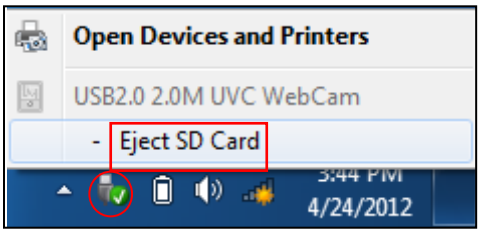
Removing a Memory Card

It is important to remove the memory card properly. Improper removal may cause the data in the memory card to be corrupted and your tablet PC to malfunction.

To properly remove the memory card, follow the steps below:

1. Tap the removable disk icon on the system tray.
2. Tap **Eject SD Card**.

   The system confirms that the device can be safely removed.
3. Push the memory card to eject it.
4. Pull the card out from the slot.

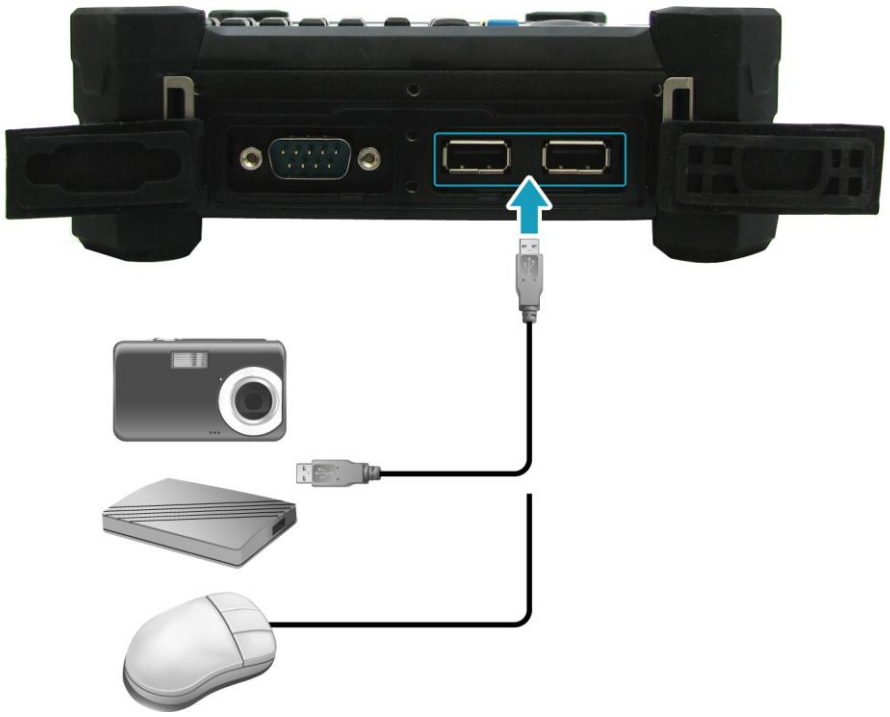


Making Connections

This chapter will guide you on installing peripheral devices to maximize the use of your tablet PC.

Connecting USB Devices

You can connect your tablet PC to other USB devices, such as a mouse, keyboard, digital camera, printer, or an external hard disk drive.



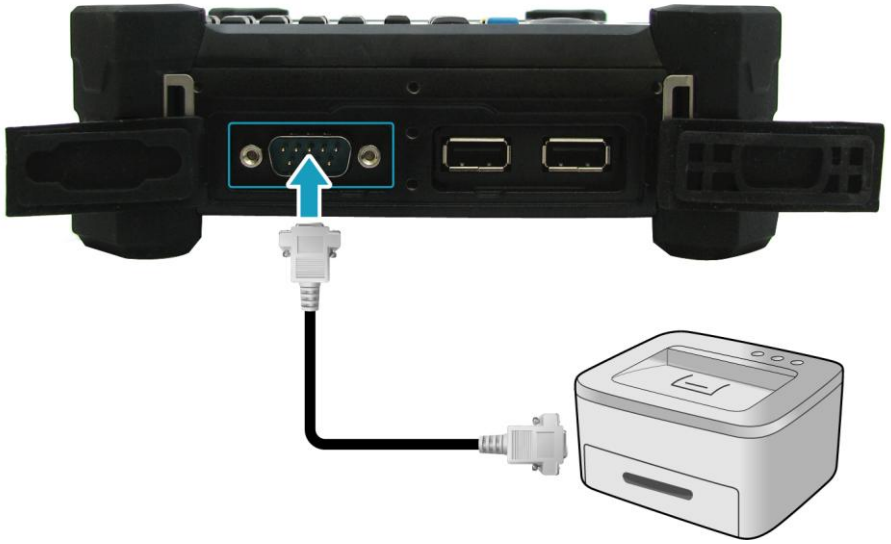
1. Connect one end of a USB cable to the USB port of your tablet PC.
2. Connect the other end to the USB device (if necessary).

NOTE

- The USB cable is not included in the package. It is sold separately or it may come with your USB device.

Connecting Peripheral Devices

You can connect your tablet PC to other peripheral devices, such as a printer or other device with serial port.



1. Connect one end of an RS-232 cable to the RS-232 port of your tablet PC.
2. Tighten the two screws on the side of the cable plug with your fingers.
3. Connect the other end to the RS-232 port of a printer or other peripheral device.

NOTE

- The RS-232 cable is not included in the package. It is sold separately.

Connecting to Wireless Connections

You can connect your tablet PC to a wireless local area network, WWAN, Bluetooth, or GPS.
Before using a wireless built-in device, you need to turn the respective built-in wireless functions on.

Connecting to a Wireless Local Area Network

Your tablet PC comes with a WLAN module. A wireless network can be added either when the network is detected or by manually entering the settings information.

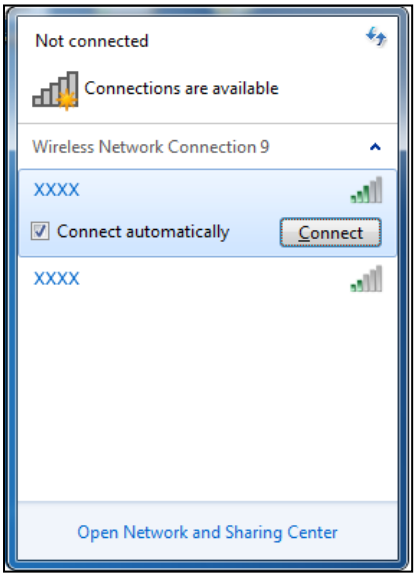
To connect, follow the steps below:

1. Press the button to turn on the wireless network function.

NOTE

- You can also activate the wireless network function by tapping icon in the Quick menu.

2. Tap the wireless network icon on the system tray.
3. Available wireless network connections are displayed. Tap the desired wireless network.
4. Tap **Connect**.
   Some networks require a network security key or a password.



TIP

4. Check **Connect automatically** box to automatically connect to this network when it is available.

6. Enter the network security key.
7. Tap **OK**.
8. After the connection is established, you can see the wireless icon ( ) in the Notification area.

NOTE

- Wi-Fi access requires service from a wireless service provider. Contact your service provider for more information.
- Actual wireless connectivity will depend on system configuration. Please contact your dealer for more information.

Connecting to a Bluetooth Device

Your tablet PC can connect and communicate with other Bluetooth-enabled devices.

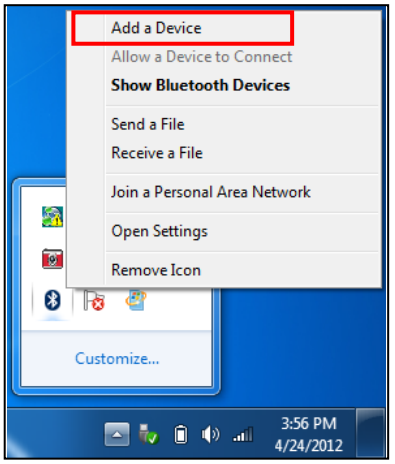
To add a device, follow the steps below:

2. Press the button to turn on the wireless network function.

NOTE

- You can also activate the wireless network function by tapping icon in the Quick menu.

3. Tap the arrow on the system tray to display hidden icons.
4. Tap the Bluetooth icon.
5. Tap **Add a Device**. The system starts scanning for Bluetooth devices and displays the available devices.
6. Tap on a device, then tap **Next**.



7. Enter the passkey (PIN) to start pairing, and tap **Next**.

8. After the pairing process is complete, tap **Close**.

NOTE

- The PIN you enter on the tablet PC must be the same PIN to be entered on the other Bluetooth device.
- Once a partnership has been created, connecting to that device again will no longer require entering the PIN.

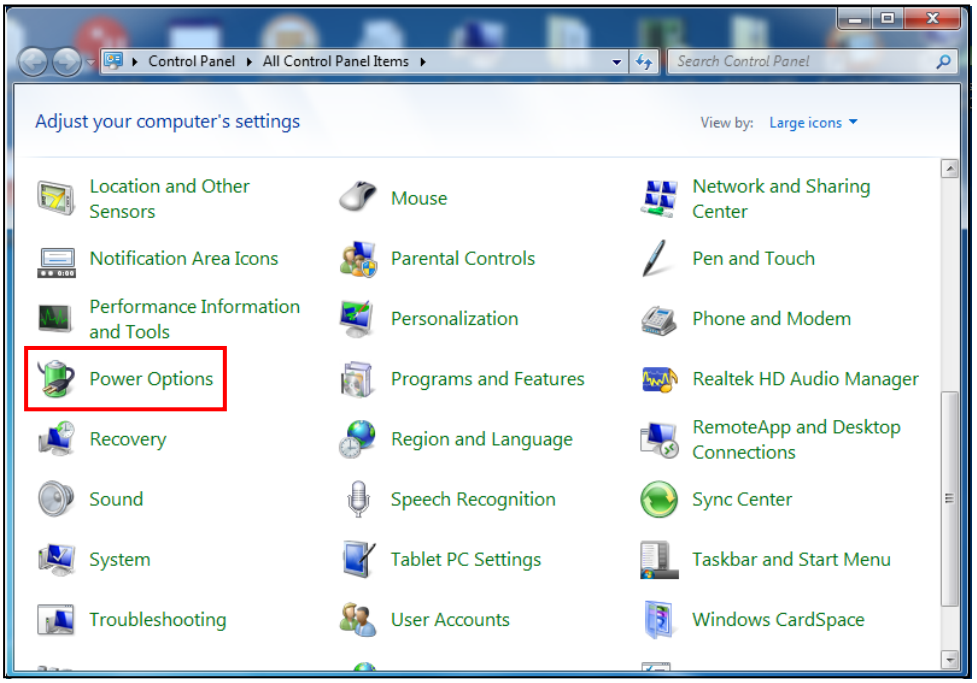
Power Management

This chapter will guide you on how to manage the system power.

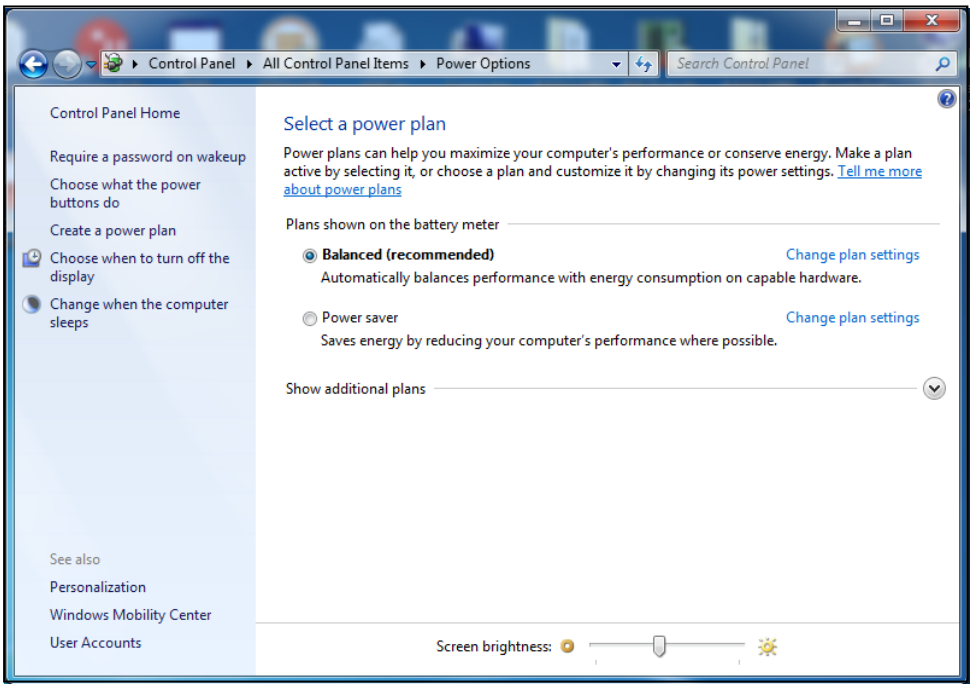
Using the Power Plan

To improve energy efficiency, you can use the power plan to reduce the amount of power your tablet PC uses, maximize the performance, or balance the two.

1. Tap **Start** > **Control Panel**.
2. Select **Power Options.**



3. Select a power plan.



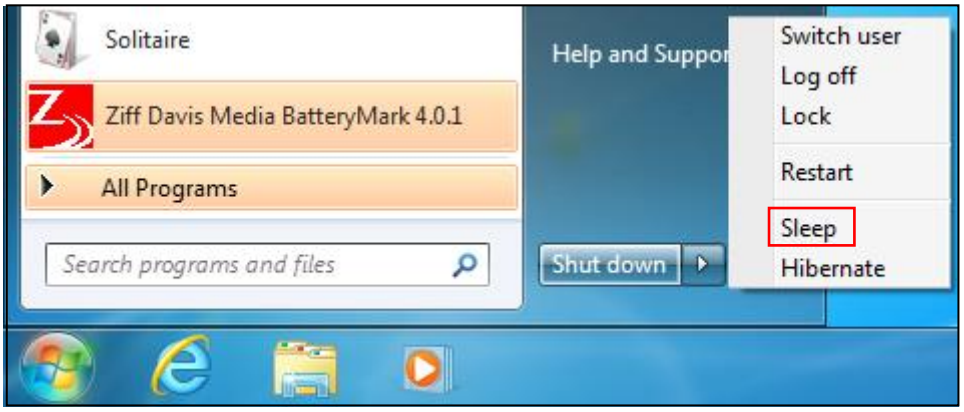
4. To adjust the selected power plan settings, tap **Change plan settings**.

Using the Power Saving Mode

When you are not using the tablet PC, turn off the tablet PC or set the tablet PC to enter sleep mode.

To set the tablet PC to enter sleep mode, follow the steps below:

1. Tap **Start**.
2. Select **Shut down > Sleep**.



To wake up the tablet PC from sleep mode, do one of the following:

- Press the ⏻ button.
- Press any key on the external keyboard.

Using the BIOS Setup Utility

Your tablet PC has a BIOS setup utility which allows you to configure important system settings, including settings for various optional functions of the tablet PC. This chapter explains how to use the BIOS setup utility.

BIOS Setup Menu

The BIOS Setup Utility allows you to configure your tablet PC basic settings. When you turn your tablet PC on, the system reads this information to initialize the hardware so that it can operate correctly. Use the BIOS setup utility to change your tablet PC start-up configuration. For example, you can change the security and power management routines of your system.

Starting the BIOS Setup Utility

You can only enter the BIOS setup utility as the tablet PC is booting, that is between the time you turn on the tablet PC and before the Windows interface appears.
If your tablet PC is already on, shut down your tablet PC completely (power off) and restart it and then press the **Delete** key to enter the setup utility.

NOTE

You have to connect your tablet PC with an external keyboard first before starting the BIOS Setup Utility.

Navigating and Entering Information in BIOS

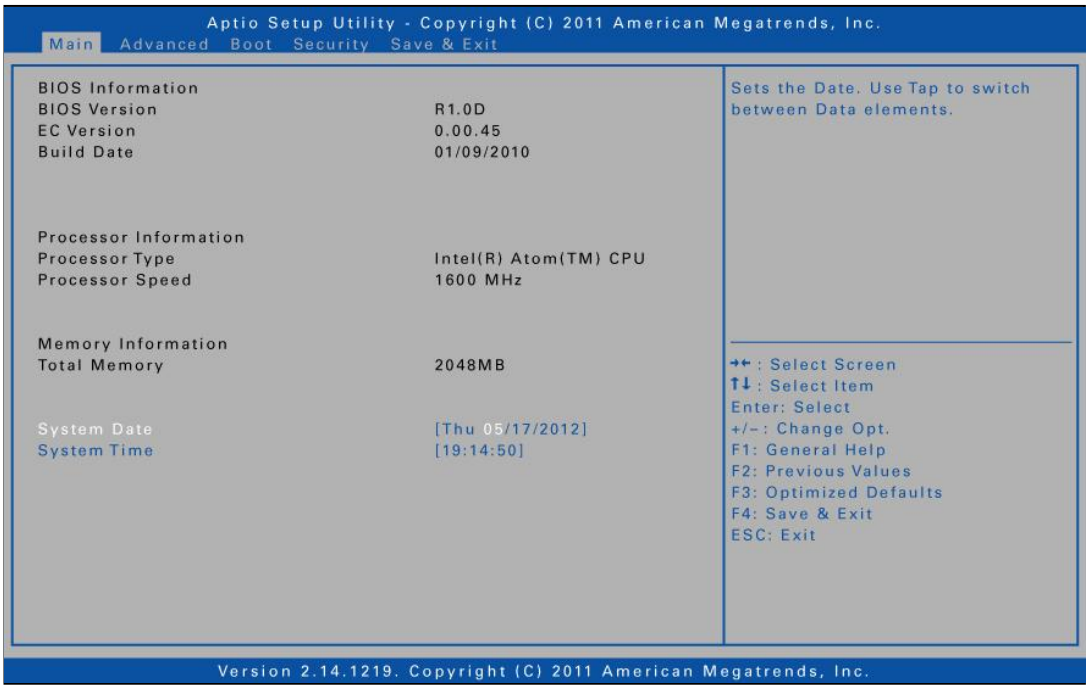
Use the following keys to move between fields and to enter information:

Function Key	Description
← →	Selects screen.
↓ ↑	Moves up/down to select items.
Enter	Confirms the selection and enters the selected menu screen.
+ / -	Changes an option for the selected items.
F1	Displays the Help screen.
F2	Invokes the previous values.
F3	Loads optimized default values.
F4	Saves the changes and exits Setup.
Esc	Press **Esc** to exit any section. If you wish to exit the BIOS utility without saving changes, go to the main menu, then press **Esc**.

Users are allowed to enter new values to replace the default settings in certain fields, and the rest of the fields are specified by system default parameters and cannot be modified by users. Reverse the attribute of the main options and press **Enter** to enter into the submenu. Press **Esc** to return to the previous configuration page.

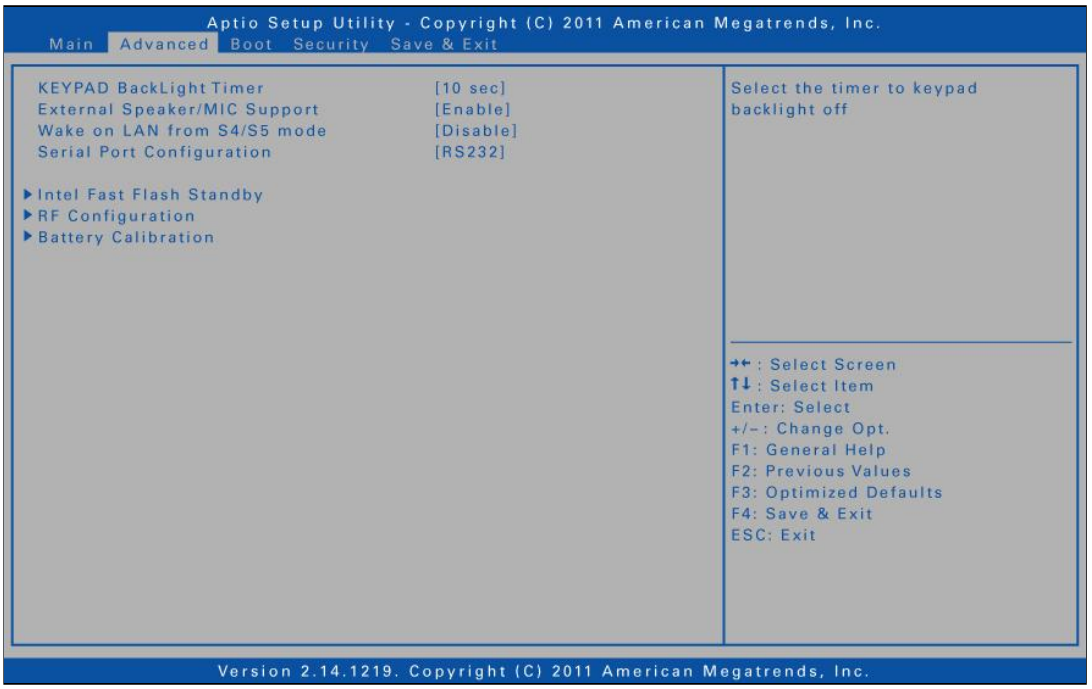
Main Menu

The Main menu displays the system overview information about BIOS version, CPU features, and total memory size. You can also set the system date and time.



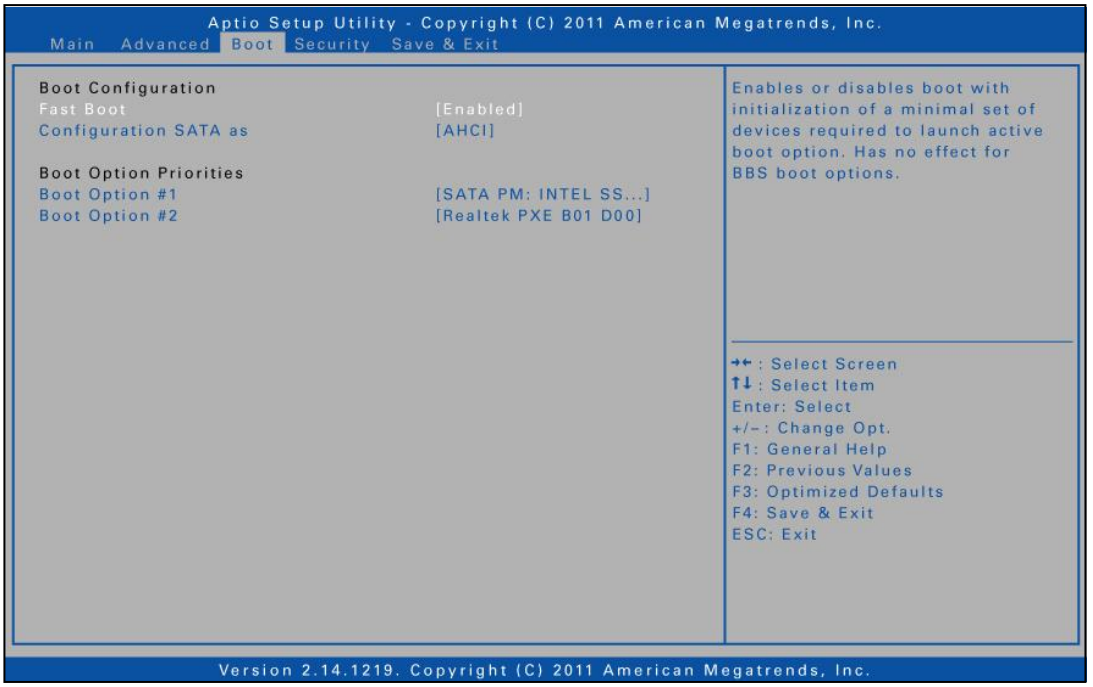
Advanced Menu

The Advanced menu allows you to calibrate the battery and configure wake up event, external speaker/microphone, keypad backlight timer, serial port, fast flash standby, and RF device control settings.



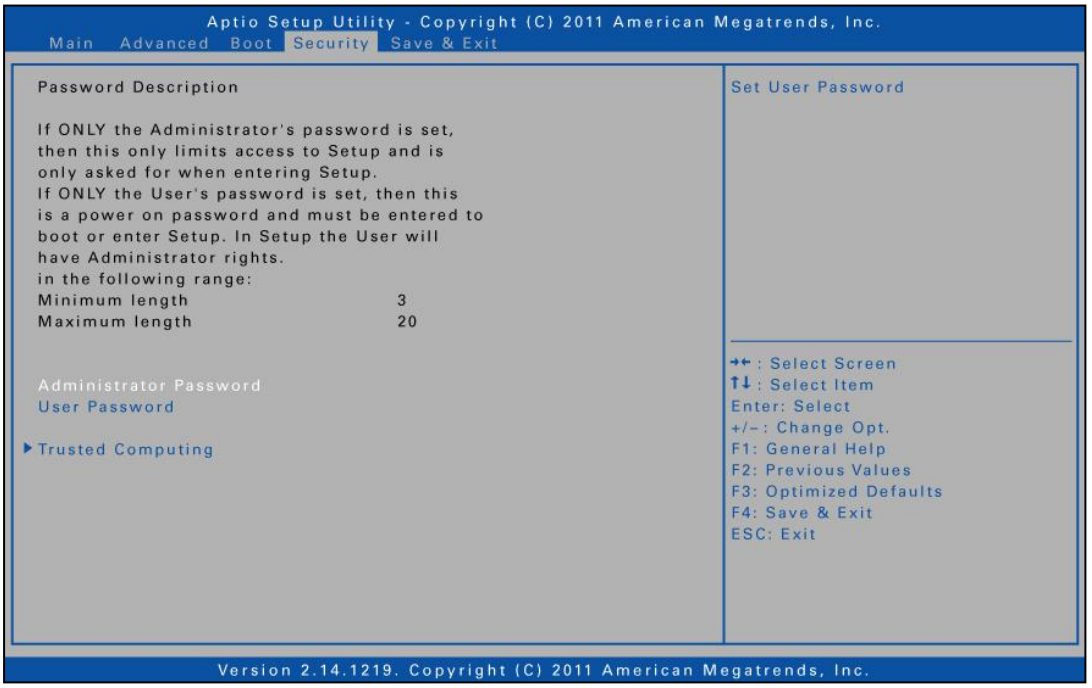
Boot Menu

The Boot menu allows you to configure the boot type and boot sequence.



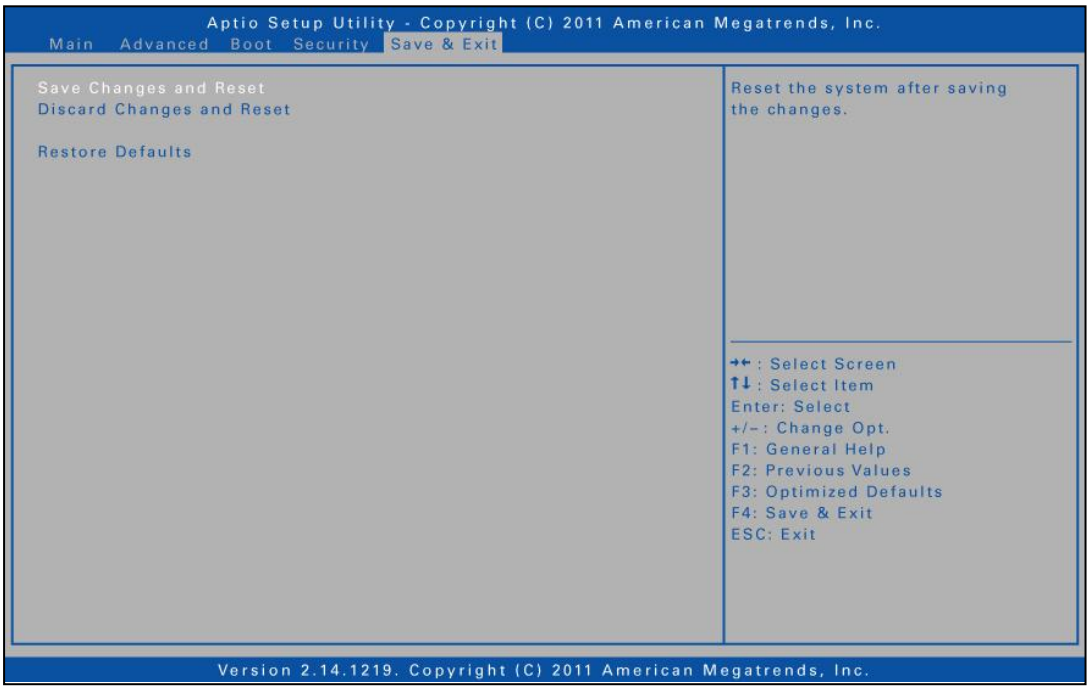
Security Menu

The Security menu allows you to set or change the Administrator and User passwords, and configure TPM settings.



Save & Exit Menu

The Save & Exit menu allows you to save or discard the changes, or restore the default values for all setup options before leaving the BIOS Setup Menu.



Troubleshooting

This chapter contains a list of common problems that you might experience when using your tablet PC, and techniques to try and overcome the problem. If you need additional help, contact your retailer.

Problems	Solutions
The battery isn't charging.	• Check if the power adapter is properly connected. • Make sure that the battery is within the recommended charging temperature of -20°C to 50°C.
The screen suddenly turns blank.	The brightness control is not properly set. Adjust the LCD screen brightness.
	Your tablet PC might be in standby or hibernate mode. Press the **Power** button to wake the system.
	If using the battery, the battery may be depleted. Replace with a fully charged battery or connect the power adapter to an electrical outlet.
The tablet PC cannot connect to Internet.	If using wireless, check if your location is out of range of the network. Move your tablet PC closer to the access point.
	If the network you are connecting to requires a security password, make sure you enter the correct password.
	Check to make sure the settings configurations are correct.
Nothing happens when I press the **Power** button.	Check if the power adapter is connected to an electrical outlet.
	If using a battery pack, make sure it has enough power. Otherwise, replace the battery.
The tablet PC cannot resume from hibernate or standard mode.	The battery power level might be too low. Connect the power adapter to an electrical outlet or replace the battery.
The tablet PC does not produce any sound.	Audio has been muted. Tap on the *Speaker* icon on the right of your Windows taskbar. When the volume control box appears, drag the bar to adjust the volume.

Specifications

Features		Specifications
Processor	Type & Speed	▪ Intel Atom Processor N2600 (1.6GHz) (Cedarview-M) ▪ Intel Atom Processor N2800 (1.86GHz) (Cedarview-M)
	Install Mechanism	BGA
	Core Logic	Intel NM10
	Level 2 Cache	512KBx2
System Memory	Type	DDRIII 800
	Capacity	One 204-pin DDRIII SODIMM socket for 2GB
	Maximum Memory	2GB
Display	LCD Display & Touch Panel	▪ **Standard:** 7” WSVGA (1024x 600 resolution) TFT LCD with resistive touch screen panel, LED backlighting, Brightness: 265nits (typical); 207nits (minimum) ▪ **Sunlight Readable:** 7” WSVGA (1024x 600 resolution) TFT LCD with Sunlight readable function, resistive touch panel with circular polarizer, Brightness: 441nits (typical); 397nits (minimum) ▪ All the glasses of touch panel are tempered glass
	Light Sensor	Build-in ambient light sensor to adjust LCD brightness with 3 modes (Max. for outdoor, Middle for indoor, and Low light modes when light sensor is enabled). The setting can be disabled in Quick Menu.
	G-Sensor	Support G-Sensor for LCD auto-rotation
Storage	SSD	▪ m-SATA SSD 32G/40G/64G/80G/128G ▪ m-SATA SSD is a CTO option

Features		Specifications
I/O Devices	Camera	▪ Integrated 5.0 Mega Pixel camera at the back of the unit ▪ With LED support light with 1500mcd, viewing angle 120º ▪ LED support light can be triggered when taking a photo by specific application software ▪ Stable image: -15 ~ 40℃ ▪ Support GeoTagging in the EXIF of JPEG file
	Barcode scanner	▪ Optional integrated bar code scanner support 1D/2D bar code reading ▪ Angle: 38.9° (Horizontal), 25.4°(Vertical) ▪ Range: 3.4-83cm ▪ Print contrast: Min. 25% ▪ Ambient light condition: 0~ 100,000 Lux ▪ Need beep sound in reading
	RFID	Optional RFID reader support ISO 15693, 14443A/B stand (Support N2600 CPU only)(work within 2cm)
	Digitizer	▪ Optional digitizer and active stylus pen ▪ System support auto-switch pointing device between resistive touch panel and digitizer if available
Communications	Network/ Wireless	▪ Integrated 10/100/1000 Ethernet network (RJ45) ▪ Intel Centrino Wireless N6235 (WLAN 2x2 a/b/g/n), (Bluetooth 4.0)
	GPS	Global positioning system (GPS) receiver *(CTO option)*
	Bluetooth	Support BT 4.0
I/O Ports	Standard	• Support barcode scanner and/or RFID • **I/O A:** USB x1, RS-232/RS-485 (Full-duplex, and support 5 Voltage) x1, RJ-45 x1(add one internal USB connector) *Can be replaced by another option:* **I/O B:** RS-232 x1, USB x2, one internal USB connector (T7Q does not support barcode scanner when I/O B is installed) • One docking connector located at the bottom • DC-in Jack • One 5pin USB interface connector besides

Specifications

Features		Specifications
		the SD card slot
Audio		• Intel High Definition Audio • One speaker, sound pressure 65dB at 0.5M Average at 0.8, 1K, 1.2K, and 1.5KHz with nominal power • Mic. Array (Microphone x2)
Power	AC Adapter	• Output: 19V, 3.42A; 65W • Input: 100V-240V, 50Hz-60Hz, • Plug type: L shape • Plug length and diameters: 12mm, 5.5mm
	Battery Pack	Lithium Ion battery pack (7.4V, 5200mAh, 38.48W)
Environment	Temperature / Humidity	• Operating Temperature (with Adapter or battery, not boot up)： -20℃~55℃(Test Method: MIL-810G 501.5 Procedure II) • Boot-Up Temperature on Battery (with fully charged battery only, extended temp SSD)： 0℃~55℃ • Boot-Up Temperature on adapter or external power via dock (extended temp SSD)： -20℃~55℃ • Storage Environment Temperature： -51℃~71℃ (Test Method: High temperature Storage, MIL-810G,Method 501.5 Procedure I climatic category A1 – Hot Dry. Low temperature Storage, MIL-STD-810G,Method 502.5,Procedure I climatic category C3 – Severe Cold.) • *Operating Humidity:* 5% ~ 95% (based on QRS test condition)
Dimensions		• 225 x 145 x 40.8 mm (excluding bumpers) • 230 x 150 x 44.8 mm (including bumpers)
Weight		1.3kg (with a battery and weight may vary depending on actual configuration)

Specifications are subject to change without prior notice.